Exploring the Extreme			
2006 Mathematics			
Grade Level and Grade Span Expectations			
New Hampshire Mathematics			
Grades K-2			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	NH	MA.K-2.M(CCR)-2-1.a	Demonstrate mathematical communication through discussion, reading, writing, listening, and responding, individually and in groups.
Finding the Center of Gravity Using Plumb Lines	NH	MA.K-2.M(CCR)-2-1.c	Explain conclusions, thought processes, and strategies in problem-solving situations.
Changing the Center of Gravity Using Moment Arms	NH	MA.K-2.M(PRP)-2-1.b	Solve problems using a variety of strategies (e.g., working backwards, looking for patterns and relationships; guess and check; making tables, charts, or organized lists; solving a simpler version of a problem, drawing a diagram; or creating a model)
Changing the Center of Gravity Using Moment Arms	NH	MA.K-2.M(PRP)-2-1.e	Solve problems using manipulatives, graphs, charts, diagrams, and calculators.
Exploring the Extreme			
2006 Mathematics			
Grade Level and Grade Span Expectations			
New Hampshire Mathematics			
Grades 3-5			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	NH	MA.3-5.M(CCR)-5-1.a	Discuss mathematical ideas and write convincing arguments.
Finding the Center of Gravity Using Rulers	NH	MA.3-5.M(CCR)-5-1.e	Demonstrate an understanding of mathematical concepts and relationships through a variety of methods (e.g., writing, graphing, charts, diagrams, number sentences, or symbols).
Finding the Center of Gravity Using Plumb Lines	NH	MA.3-5.M(CCR)-5-1.e	Demonstrate an understanding of mathematical concepts and relationships through a variety of methods (e.g., writing, graphing, charts, diagrams, number sentences, or symbols).
Changing the Center of Gravity Using Moment Arms	NH	MA.3-5.M(CCR)-5-1.e	Demonstrate an understanding of mathematical concepts and relationships through a variety of methods (e.g., writing, graphing, charts, diagrams, number sentences, or symbols).
Changing the Center of Gravity Using Moment Arms	NH	MA.3-5.M(CCR)-5-2.b	Use appropriate representations to solve problems or to portray, clarify, or extend a mathematical idea.

Jet Propulsion	NH	MA.3-5.M(CCR)-5-1.e	Demonstrate an understanding of mathematical concepts and relationships through a variety of methods (e.g., writing, graphing, charts, diagrams, number sentences, or symbols).
Vectoring	NH	MA.3-5.M(CCR)-5-1.e	Demonstrate an understanding of mathematical concepts and relationships through a variety of methods (e.g., writing, graphing, charts, diagrams, number sentences, or symbols).
Vectoring	NH	MA.3-5.M(CCR)-5-1.f	Use a variety of technologies (e.g., computers, calculators, video, probes) to represent and communicate mathematical ideas.
Exploring the Extreme			
2006 Mathematics			
Grade Level and Grade Span Expectations			
New Hampshire Mathematics			
Grades 6-8			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	NH	MA.6-8.M(CCR)-8-1.a	Articulate ideas clearly and logically in both written and oral form.
Jet Propulsion	NH	MA.6-8.M(CCR)-8-1.b	Present, share, explain, and justify thinking with others and build upon the ideas of others to solve problems.
Jet Propulsion	NH	MA.6-8.M(CCR)-8-1.d	Formulate questions, conjectures, definitions, and generalizations about data, information, and problem situations.
Vectoring	NH	MA.6-8.M(CCR)-8-1.a	Articulate ideas clearly and logically in both written and oral form.
Vectoring	NH	MA.6-8.M(CCR)-8-1.b	Present, share, explain, and justify thinking with others and build upon the ideas of others to solve problems.
Vectoring	NH	MA.6-8.M(CCR)-8-1.d	Formulate questions, conjectures, definitions, and generalizations about data, information, and problem situations.